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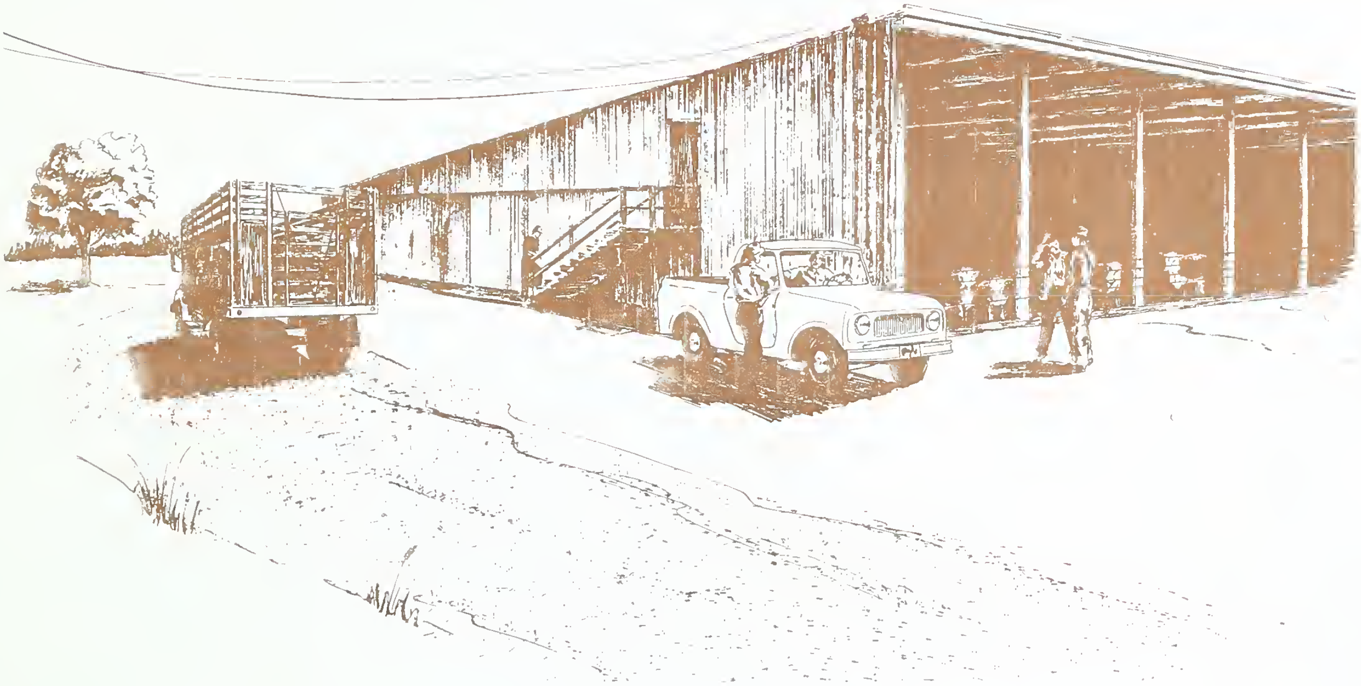
CONFINEMENT BEEF BARN
- Rear Driveway

COOPERATIVE FARM BUILDING
Plan No. 6158
(2 SHEETS)
PLAN EXCHANGE



This building, designed as an open-front confinement beef barn, provides ventilation through adjustable doors on the back side and through a continuous air vent at the ridge. Roof insulation moderates the effect of temperature in the summer and the winter and controls condensation.

Construction is pole type, using pressure-treated posts supported by heavy rafters. A 4-inch concrete slab is used in the floor area of the pit, and the cross walls are reinforced for a pressure of 60 pounds per cubic foot-fluid (60 lbs/ft^3 fluid). Perimeter walls are reinforced for a pressure of soil with moderate drainage (equiv. of 30 lbs/ft^3 fluid). If highest water table at building site is more than 2 feet above pit floor level, install footing tile and sump pump to relieve pressure or check with engineer for amount of additional reinforcing.

An 8-inch thick wall requires more steel than a 6-inch thick wall because of the relationship between expansion contraction and the volume of concrete.

This design is safe for many building sites. The greatest danger of a wall failure is during backfilling. Beams and slats should be in place before backfilling. Temporary bracing could be used to help withstand water pressure from a heavy rain or vehicle wheel loads during backfilling.

Each 48-foot pen section of this building will house 75 head of feeder cattle at 20 square feet per animal.

The entire structure is economical and easily constructed. General features of construction are shown on the working drawings.

Complete working drawings may be obtained from the extension agricultural engineer at your State university. There may be a small charge to cover cost of printing.

If you do not know the location of your State university, send your request to Agricultural Engineer, Extension Service, U.S. Department of Agriculture, Washington, D.C. 20250. He will forward your request to the correct university.

ORDER PLAN NO. 6158, CONFINEMENT BEEF BARN—Rear Driveway.

Washington, D.C.

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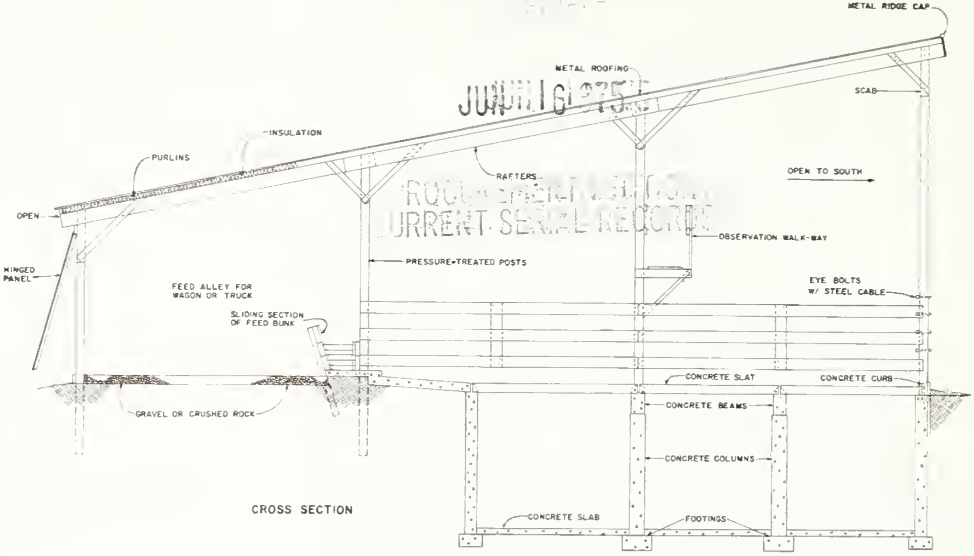
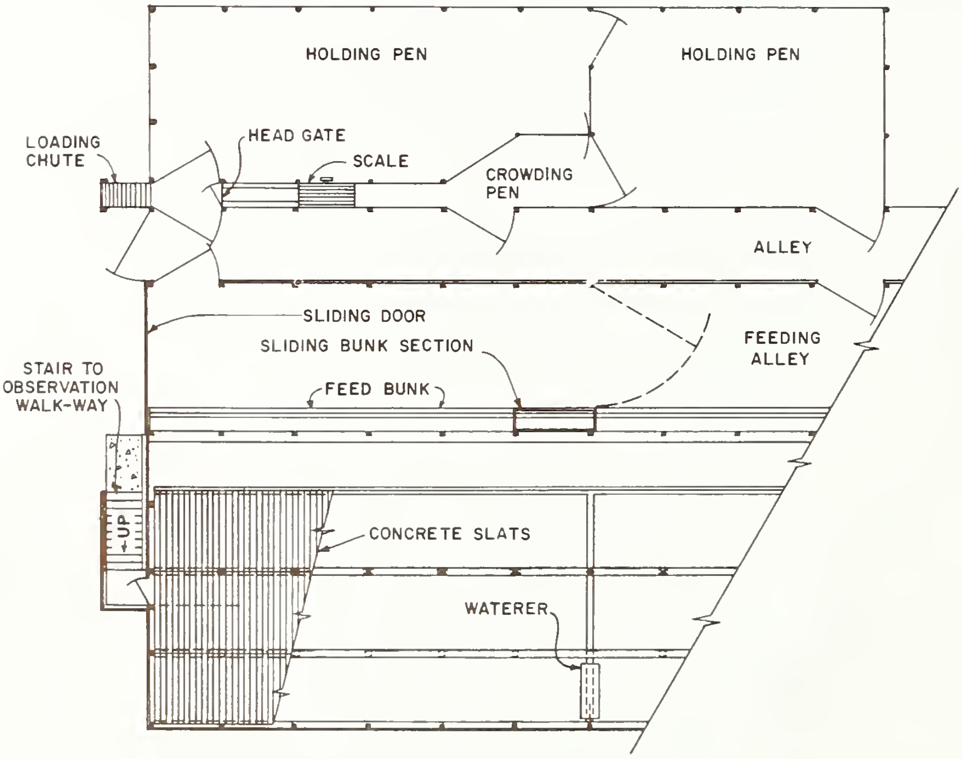


CROSS SECTION



FLOOR & FOUNDATION PLAN

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